

Intel Xeon W-2223 processor 3.6 GHz 8.25 MB Box

Brand : Intel

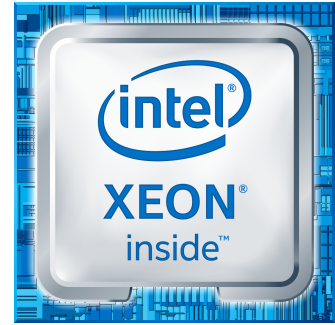
Product family: Xeon

Product code: BX80695W2223

Product name : W-2223

Intel® Xeon® W-2223 Processor (8.25M Cache, 3.60 GHz)

Intel Xeon W-2223. Processor family: Intel Xeon W, Processor socket: LGA 2066 (Socket R4), Processor lithography: 14 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 1.02 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Workstation, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 1S. Package type: Retail box. Processor package size: 45mm x 52.5mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	W-2223	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor base frequency *	3.6 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel Xeon W	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cores *	4	Enhanced Intel SpeedStep Technology	✓
Processor socket *	LGA 2066 (Socket R4)	Intel Trusted Execution Technology	✓
Component for	Server/workstation	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor lithography *	14 nm	Intel® Speed Shift Technology	✓
Processor threads	8	Intel® Transactional Synchronization Extensions	✓
System bus rate	8 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel Demand Based Switching	✓
Processor boost frequency	3.9 GHz	Intel® Secure Key	✓
Processor cache	8.25 MB	Intel TSX-NI	✓
Thermal Design Power (TDP)	120 W	Intel® OS Guard	✓
Box *	✓	Intel Software Guard Extensions (Intel SGX)	✗
Cooler included *	✓	Intel 64	✓
Memory bandwidth supported by processor (max)	85.3 GB/s	Intel Virtualization Technology (VT-x)	✓
Processor codename	Cascade Lake	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor ARK ID	198018	Intel Turbo Boost Max Technology 3.0	✗
Memory		Intel® Optane™ Memory Ready	✗
Maximum internal memory supported by processor	1.02 TB	AVX-512 Fused Multiply-Add (FMA) units	2
Memory types supported by processor	DDR4-SDRAM	Intel® Boot Guard	✓
Memory clock speeds supported by processor	2666 MHz	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Memory channels *	Quad-channel	Intel® Volume Management Device (VMD)	✓
ECC	✓	Intel® vPro™ Platform Eligibility	✓
Graphics		Operational conditions	
On-board graphics card *	✗	Tcase	64 °C
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Workstation		

Features		Technical details	
Maximum number of PCI Express lanes	48	Launch date	Q4'19
PCI Express slots version	3.0	Product type	Processor
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Status	Launched
Scalability	1S	Supported memory types	DDR4-SDRAM
Physical Address Extension (PAE)	✓	Bus speed	8 GT/s
CPU configuration (max)	1	Logistics data	
Embedded options available	✗	Harmonized System (HS) code	85423119
Physical Address Extension (PAE)	46 bit	Packaging data	
PCI Express CEM revision	3.0	Package type	Retail box
Export Control Classification Number (ECCN)	5A992C	Weight & dimensions	
Commodity Classification Automated Tracking System (CCATS)	G077159	Processor package size	45mm x 52.5mm
		Other features	
		Maximum internal memory	1 TB



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